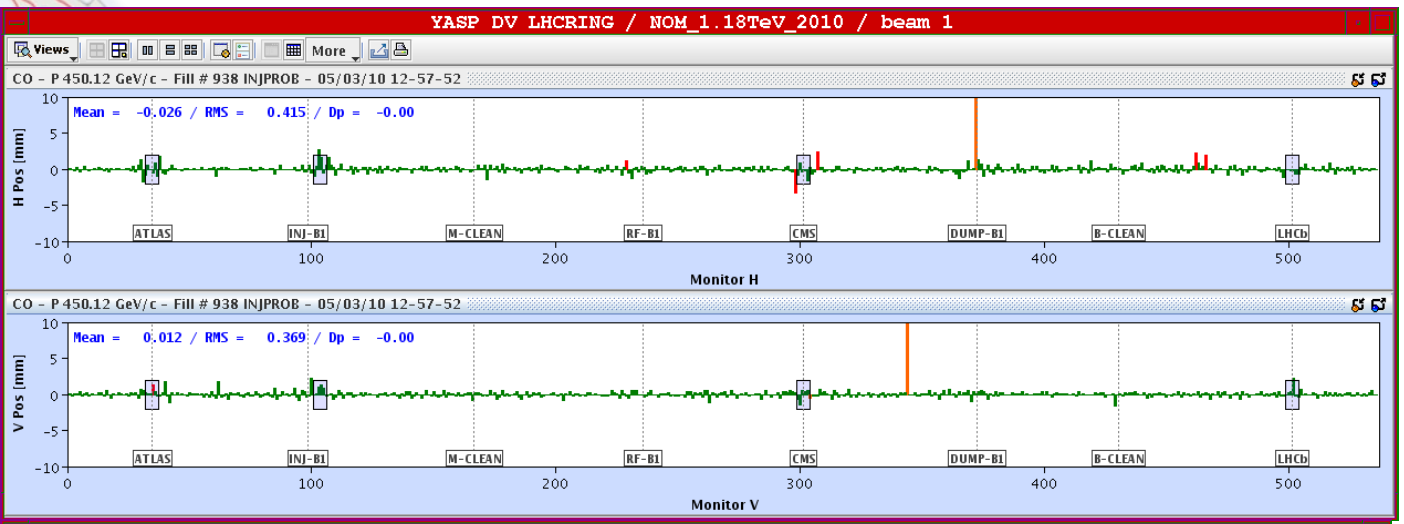
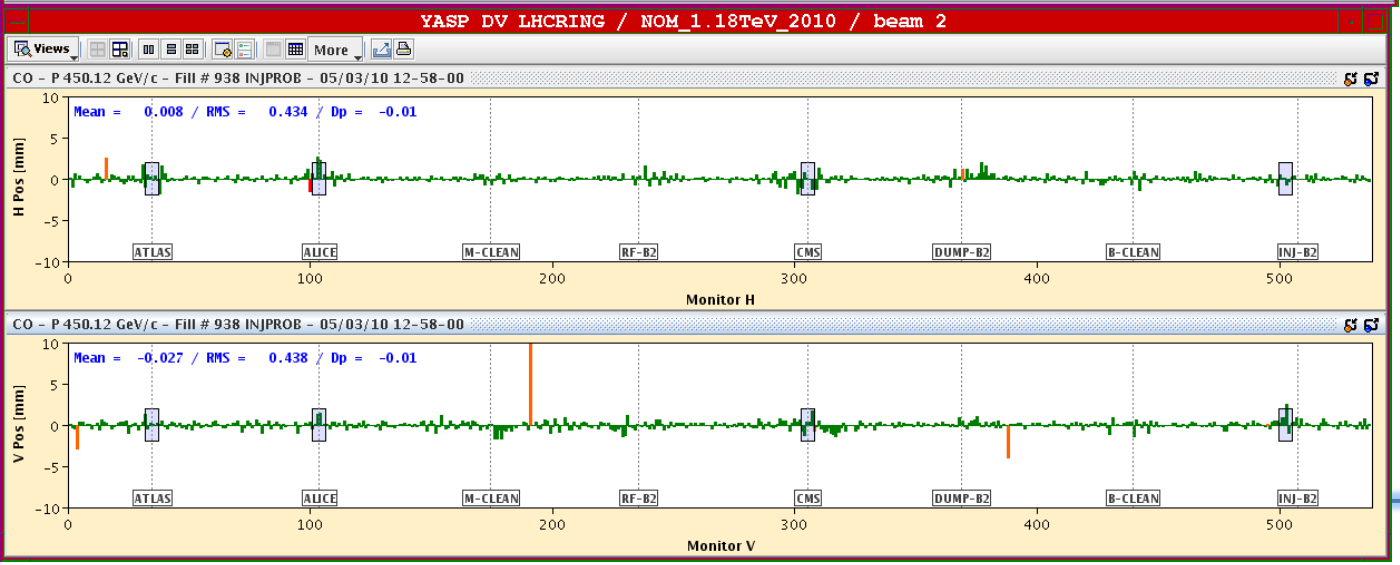
Friday 05/03/2010

07:00 – 13:00 : Establishing reference orbit – “golden” – Jorg Wenninger





suspect polarity problem on MCBXH3.L8 to be tested

Friday 05/03/2010

- 13:00 – 14: 00 : Injection oscillation B1 – B2 corrected, with 1-2 correctors and ~ 5 urad Rossano Giachino

Friday 05/03/2010

- 14:00 : Switching on spectrometers + compensators (all spectrometers @neg. polarity)
  - CMS
  - LHCb together with CMS
  - ALICE solenoid & compensators– when LHCb is done
  - *ATLAS – already on and compensated globally*

- Compensation chronology:
  - LHCb when it is up – check it does not perturbed coupling measurement for CMS
  - ALICE when LHCb is done
  - ~20:00 CMS up - Correct CMS non-closure – coupling - check knobs

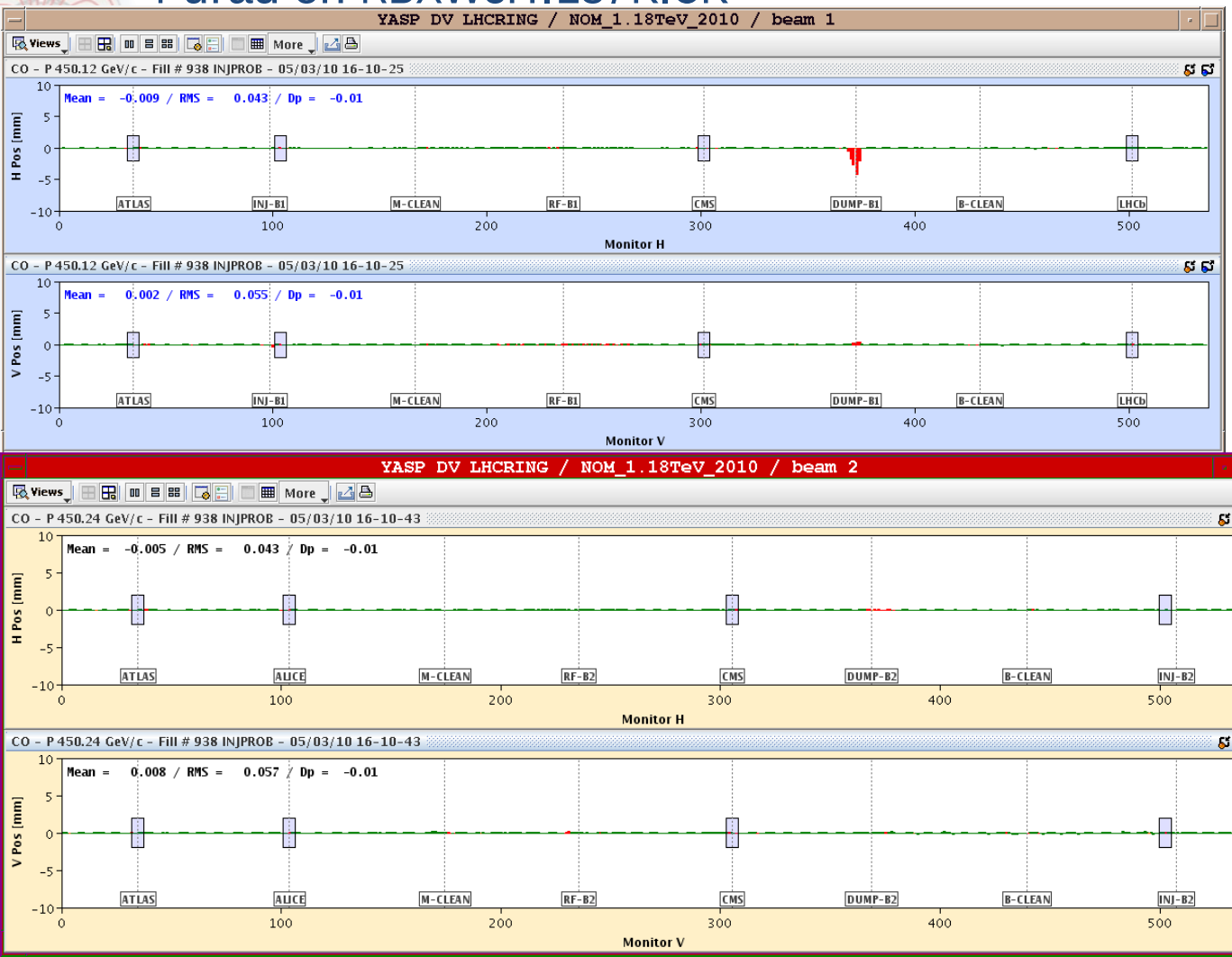
Friday 05/03/2010

LHCb Non-closure of the LHCb spectrometer magnet bump at full field is a factor 2 better than in 2009 (with the new field map). The rms non-closures are 0.53/0.54 mm for beam1/2 (was > 1 mm in 2009)

Jorg Wenninger

Friday 05/03/2010

Closed the bump of LHCb to 50 um with 2 kicks:
-18 urad on RBXWSH.R8/KICK
- 4 urad on RBXWSH.L8/KICK



Jorg Wenninger
Massimo Giovannozzi

Friday 05/03/2010

- IR6 interlock BPM — Chiara Bracco

- Impossible to reset the interlock - Lars looking - BIC became green again after restarting the crates
- 4 mm orbit bumps in point 6 (horizontal and vertical plane) for both beams were applied and reading at the BPMs were OK (delta).
- BPMSB.B4R6.B1 has an offset of 25mm: under investigation

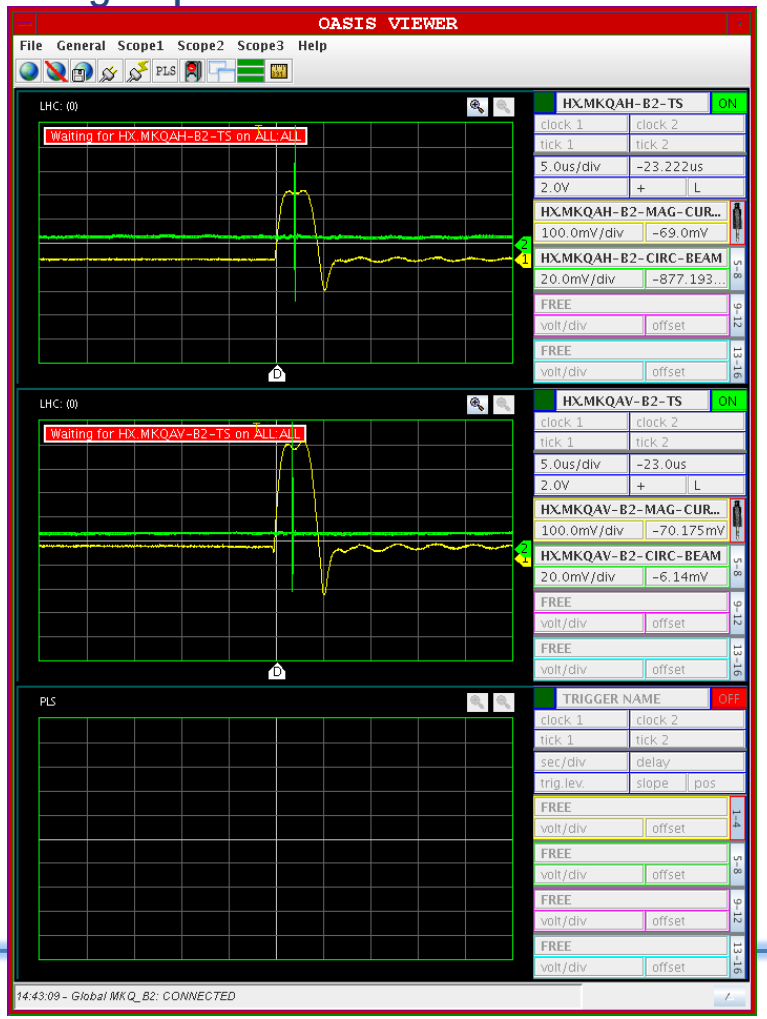
Friday 05/03/2010

- MKQ – MKQA kick calibration, interlocks…
- Switch on MKQ B2. Adjust synchronisation delay to 32 us, to synchronise with beam (present bucket 1001 for B2). Oasis settings updated and verified - see image capture
- Kicker MKQ B2 at max strength. Amplitude oscillations max between

  1.5 and 2.0 mm in the arc. in the arc

  1 mm is about 1 sigma, so max amplitude about 2 sigma.

  BSRT image very diffuse after max amplitude kick.



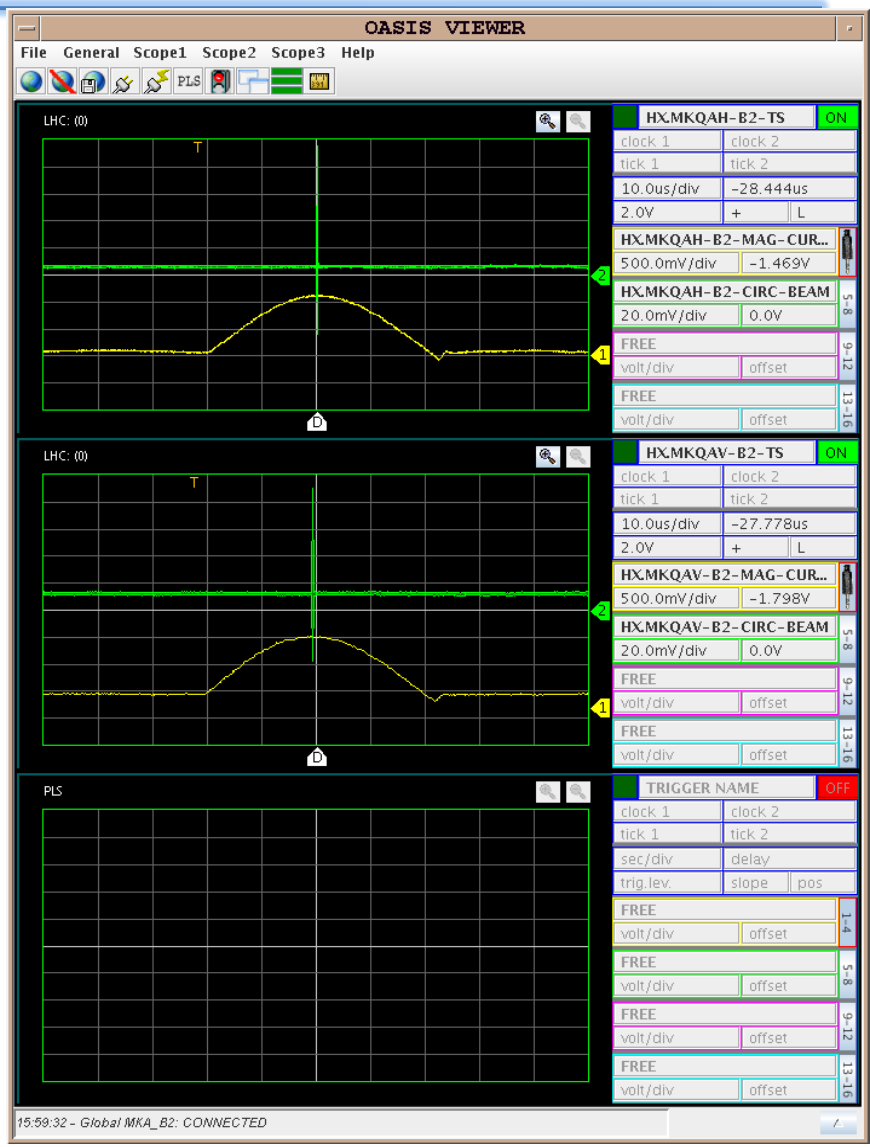
Friday 05/03/2010

MKQ to MKA for B2

Kick again MKA B2 at 20 % both planes.

Lifetime really drops down to zero for a few seconds, but no beam losses visible on FBCT trend.

Oscillation amplitude maximum of about 2 mm.



OASIS images (after re-optimisation of settings)

Friday 05/03/2010

- Next : ALICE and CMS non closure corrections

Plans for tomorrow

Saturday 06/03/2010 (preliminary)

- 00:00 - 04:00 : Switching the separation bumps ON – check non-closure, correct. Check injection oscillation – correct.

  Beam separation knob check for tuning of collisions
- 04:00 – 08:00 : Re-cycle and re-check all beam parameters, dispersion, chromaticity measurements
- 08:00 – 12:00 : Polarity checks
- 12:00 – 14:00 : Reserve - RF vs Hump?
- 14:00 – 22:00 : Injection and beam dump studies
- 22:00 - 07:00 : Beta beat measurements

Plans for coming 2 days

Sunday 07/03/2010 (preliminary)

- 07:00 – 17:00 : Collimator setting-up – BLM
- 17:00 - 01:00 : Aperture measurements
- 01:00 - 07:00 : Damper setting-up

Monday 08/03/2010 (preliminary)

- 07:00 – 12:00 : Protection device checks and setting-up
- 12: 00 – 18:00 : Tune and orbit feedback
- 18:00 – 20:00 : Ramp trial without beam – collimator & BETS checks
- 20:00 – 22:00 : Pre-cycle
- 22:00 – 07:00 :